1. A humanity interface development system of a testing program of a circuit board, comprising:

a main menu by which an operator may select one of multiple items with data pre-built therein, the main menu including: building configuration of objects to be tested, defining footing of objects to be tested, using a program generator, building data of testing chapters, building documents and figure files of objects to be tested, building reference data, building intercepted data of coordinates of positions of parts, building relationships of items to failure rates of parts, and linking and compiling files, building of data of each object to be tested co-operating with the program generator to produce the required program, and the items of building data of testing chapters and linking and compiling files co-operating with steps of building of data of each object to be tested, so that the operator may conveniently use data base and programs that are built according to existing orders of the system for testing a circuit board.

2. The humanity interface development system of a testing program of a circuit board in accordance with claim 1, wherein building configuration of objects to be tested includes the following steps:

selecting a name of the object to be tested: displaying a name of the object to be selected from an existing data base of a display, choosing and identifying the name of the object;

1   displaying the data of the object to be tested: displaying original

2   chosen records in the data base to facilitate judgement of following addition

3   and amendment; and

4   selecting processed items: selecting items of addition, deletion,

5   amendment or returning to a previous page, wherein if the item of addition is

6   chosen, the operator needs to input the data of the new board object to be

7   tested, then store the data, and then return to the step of selecting the name of

8   the object to be tested; if the item of deletion is chosen, the data of the object

9   to be tested is deleted directly; if the item of amendment is chosen, the data of

10   the object to be tested is amended, and is stored; if the item of returning to the

11   previous page is chosen, the operator may return to the picture of the main

12   menu, whereby contents of each basic configuration of the objects to be

13   tested may be built.

14   3. The humanity interface development system of a testing program

15   of a circuit board in accordance with claim 1, wherein defining footing of

16   objects to be tested includes the following steps:

17   displaying a picture of the name of the selected object to be tested:

18   displaying the picture of the name and related illustration of the selected

19   object to be tested, to facilitate direct reference of the operator;

20   if it is a new object to be tested: judging if it is a new object to be

21   tested, if it is a new object to be tested, the operator may proceed the

22   following settings, including:

23   selecting a clamping tool: selecting an existing common clamping

24   tool or making a new clamping tool;

1   destining a new number: defining a new number to the new board to

2 facilitate identification; and

3   inputting footing data: inputting data ofeach footing manually;

4   if it is not a new object to be tested, it means that the object to be

5 tested is an electronic board that has generated the testing program, so that

6 the data base of the system may directly display the record for identification

7 of the operator;

8   selecting a processing manner: the operator may select printing and

9 may select the printing item to print data of each chosen item for reference; if

10 the operator selects ending, he needs to select the clamping tool, and has to

11 select an existing common clamping tool or make a new clamping tool; if the

12 operator selects the existing common clamping tool, the original footing data

13 in the system may be processed directly, to reproduce the cleared file of the

14 footing to the respective data menu, and the procedure is then ended; if the

15 operator selects to make a new clamping tool, the procedure is directly ended.

16   4. The humanity interface development system of a testing program

17 of a circuit board in accordance with claim 1, wherein the a procedure of

18 using the program generator includes the following steps:

19   displaying the name of the object to be tested: displaying the name

20 the object to be tested and the related data for identification of the designer;

21   confirming: if the operator confirms the object to be tested, the

22 following procedure may be performed; if the operator does not confirm the

23 object to be tested, the picture returns to the main menu;

1   selecting the program manner: the operator may respectively select

2 the modes of the program parameter, including testing, debug or limit; if the

3 operator selects the testing mode, he may input the testing parameter, if the

4 operator selects the debug mode, he may input the debug parameter, after the

5 two items of inputting the testing parameter and inputting the debug

6 parameter are input, the system respectively enters the designs of test

7 program or debug program, and the picture may indicate the flow chart

8 button to prepare to proceed a step of selecting the testing flow chart; if the

9 operator selects the limit mode, the picture indicates selecting the item of the

10 chapter or section to be amended, and selecting a testing manner to select a

11 testing manner such as the function test or debug test, and after selection to

12 perform the step of selecting a testing number or selecting a testing number

13 and debugging, then filling the limit value for each program or step, then

14 selecting confirming the above steps and actions, if the above steps and

15 actions are not confirmed, the picture returns to the main menu, if the above

16 steps and actions are confirmed, the data in the data base may be changed,

17 and the picture returns to the step of displaying the name of the object to be

18 tested.

19   5. The humanity interface development system of a testing program

20 of a circuit board in accordance with claim 1, wherein a procedure of

21 selecting the testing flow chart includes: file maintenance or reproduction,

22 and selecting a button of a testing flow chart.

23   6. The humanity interface development system of a testing program

24 of a circuit board in accordance with claim 5, wherein selecting the item of

1   the testing flow chart may be changed and designed according to different

2   testing processes and manners, and the most complete process of selecting the

3   item of the testing flow chart includes the following steps: setting power

4   supply of the system, starting, a first pause, setting the exciting signal, a

5   second pause, setting a measuring signal, a third pause, closing the exciting

6   signal, a fourth pause, updating codes of the testing program, and updating

7   codes of the debug program.

8   7. The humanity interface development system of a testing program

9   of a circuit board in accordance with claim 6, wherein the procedure of

10   setting power supply of the system includes the following steps:

11   setting a flow chart of power supply: inputting values of voltage

12   and current, then selecting a picture of a next output mode, such as outputting

13   SSCheck Box, then selecting confirming, if the above actions are confirmed,

14   checking if the mode of the footing satisfies the standard mode of the footing,

15   such as the mode of Form C Relay 414, then checking if the preset power

16   supply of the footing is correct, if not, amending the footing definition and

17   returning to the step of setting the flow chart of power supply to repeat the

18   work; if the preset power supply of the footing is correct, storing the above

19   data, and then returning to the picture of selecting the testing flow chart.

20   8. The humanity interface development system of a testing program

21   of a circuit board in accordance with claim 6, wherein the starting procedure

22   includes the following steps:

23   starting the flow chart: the system directly judging a parameter to

24   directly enter a testing step or a debugging step, then inputting a content

1   number, then judging if it is a new step or an old step, to respectively enter

2   the step of definition of a new step or download of an old step, then judging if

3   the parameter and the step are reproduced to the next chapter or section, if so,

4   changing the parameter, then selecting confirming, if the above action is

5   confirmed, storing the new parameter, if the above action is not confirmed,

6   returning to the picture of selecting the testing flow chart.

7   9. The humanity interface development system of a testing program

8   of a circuit board in accordance with claim 6, wherein the processes of the

9   first pause, the second pause, the third pause, and the fourth pause

10   respectively include the steps of: filling a hint message, and storing the hint

11   message.

12   10. The humanity interface development system of a testing

13   program of a circuit board in accordance with claim 6, wherein the procedure

14   of setting the exciting signal includes: selecting the exciting signal, then

15   inputting values and conditions, then selecting confirmation, if the values and

16   conditions are confirmed, then storing the values and the conditions, if the

17   values and the conditions are not confirmed, returning to the picture of

18   selecting the testing flow chart.

19   11. The humanity interface development system of a testing

20   program of a circuit board in accordance with claim 6, wherein the procedure

21   of setting a measuring signal includes a flow chart of setting the measuring

22   signal which includes the following steps: directly selecting the measuring

23   signal, then confirming if other instrument is used, when confirming other

24   instrument is used, displaying the picture of the instrument and inputting the

22

1 values and conditions, when confirming no other instrument is used, directly

2 inputting the values and conditions, then selecting confirmation, if the values

3 and conditions are confirmed, storing the values and conditions, if the values

4 and conditions are not confirmed, returning to the picture of selecting the

5 testing flow chart.

6   12. The humanity interface development system of a testing

7 program of a circuit board in accordance with claim 6, wherein the procedure

8 of closing the exciting signal includes the flow chart of closing the exciting

9 signal which includes the following steps: selecting the exciting signal to be

10 closed, then selecting confirmation, if the selection is confirmed, storing the

11 changed results, if the selection is not confirmed, returning to the picture of

12 selecting the testing flow chart.

13   13. The humanity interface development system of a testing

14 program of a circuit board in accordance with claim 6, wherein the

15 procedures of updating codes of the testing program, and updating codes of

16 the debug program include the following steps: judging if the column is

17 blank, if the column is blank, directly displaying the hint, if the column is not

18 blank, performing the action of capturing the program codes.

19   14. The humanity interface development system of a testing

20 program of a circuit board in accordance with claim 5, wherein the process of

21 file maintenance or reproduction includes the following steps:

22   selecting file maintenance or reproduction: selecting the process of

23 file maintenance or reproduction, if the process of file maintenance is

24 selected, it is necessary to select the manner of file maintenance, if the

1   process of reproduction is selected, it is necessary to select the manner of

2   reproduction; wherein,

3   if the operator selects the manner of file maintenance, it includes

4   the following steps:

5   selecting the class of the program code: selecting a testing

6   parameter or a debugging parameter, then returning to the picture of selecting

7   the testing flow chart, to respectively perform the design of the testing

8   program or the debugging program;

9   selecting amending the program code: selecting the content of

10   amendment for testing or debugging, so as to select the number of the

11   primary and secondary testing or debugging step, and to make sure the

12   content of the program, and selecting the manner of amendment for different

13   program code, so as to select the working process such as deletion, insertion

14   or cancel, then selecting confirmation, if selecting the cancel process, then

15   directly returning to the picture of selecting the testing flow chart, if selecting

16   the working process of deletion or insertion, then amending the content of the

17   data base, and then returning to the procedure of selecting amending the

18   program code;

19   selecting returning to the picture of the program generator or

20   returning to the picture of the main menu, then returning to the destined

21   position, to facilitate the following operator;

22   if the operator selects the manner of reproduction, it includes the

23   steps of selecting three modes of reproduction, including: the testing

24   programs being reproduced mutually, the testing programs being reproduced

1   to the debugging programs, and the debugging programs being reproduced

2   mutually; after selection, filling the reproduced content, then selecting

3   confirmation, if not confirmed, then returning to the picture of selecting the

4   testing flow chart, if confirmed, then copying the reproduced content and

5   returning to the picture of filling the reproduced content to repeat the above-

6   mentioned work until the work is finished.

7   15. The humanity interface development system of a testing

8   program of a circuit board in accordance with claim 1, wherein the procedure

9   of building data of testing chapters includes the following steps: selecting the

10   object to be tested; then displaying the testing contents to indicate the number

11   and name of the testing contents of each chapter or section, and then inputting

12   a representative code into the content of the picture to facilitate classification.

13   16. The humanity interface development system of a testing

14   program of a circuit board in accordance with claim 1, wherein the procedure

15   of building documents and figure files of objects to be tested includes the

16   following steps: preparing the hint of documents and figure files, so that

17   when the designer selects the item of building documents and figure files of

18   objects to be tested, the picture may display the related hints immediately, to

19   remind the designer of preparing the related documents and figure files for

20   requirement of inputting, and then the designer may make sure building the

21   documents and figure files of objects to be tested.

22   17. The humanity interface development system of a testing

23   program of a circuit board in accordance with claim 1, wherein the procedure

24   of building reference data includes the following steps: selecting a new board

1 or an old board, if selecting the new board, then building data of the practical

2 figures and images and data of the positions of the parts according to an

3 instruction, so as to input the figure file data of the files of the practical

4 figures and images and the files of the positions of the parts, and placing

5 them in the destined menu, if selecting the old board, then directly selecting

6 the data on the figure files by the cursor, and then displaying the image to

7 display the picture of the related figure files for confirmation of the designer.

8   18. The humanity interface development system of a testing

9 program of a circuit board in accordance with claim 1, wherein the procedure

10 of building intercepted data of coordinates of positions of parts includes the

11 following steps:

12   selecting the object to be tested: selecting the corresponding object

13 to be tested, or selecting the item of returning to the main menu to return to

14 the destined location;

15   selecting inspection or building: after selecting the object to be

16 tested, then selecting the item of selecting inspecting the circuit board or

17 building the data base, if selecting the item of inspecting the circuit board,

18 then selecting controlling the picture to directly amplify the inspection

19 picture, if selecting the item of building the data base, then selecting building

20 the related coordinate;

21   selecting controlling the picture: selecting locally amplifying the

22 picture by the mouse or amplifying the sub-picture; if selecting locally

23 amplifying the picture by the mouse, then moving the mouse to directly

1 inspect the picture, if selecting amplifying the sub-picture, then forming a

2 small-sized amplifying picture in the original picture;

3 selecting building the related coordinate: selecting the mode of

4 building the related coordinate for the reference point or member;

5 selecting building the coordinate of the reference point: directly

6 moving the cursor to select the position of the part, thereby forming a region

7 that may produce the related coordinates, and then selecting confirmation;

8 selecting building the coordinate of the member: building the

9 coordinate of the member, such as the electronic part of the circuit board to

10 be tested, including the following steps:

11 selecting the processing manner: selecting the processing manner of

12 amendment or addition;

13 amendment: directly selecting amendment of the picture of the part,

14 and then selecting confirmation;

15 addition: selecting the part, then selecting confirmation, then

16 inputting the representative code, and then selecting confirmation, whereby

17 the procedure of building intercepted data of coordinates of

18 positions of parts may be accomplished conveniently, so that each of the parts

19 of the circuit board may correspond to the data base of the system.

20 19. The humanity interface development system of a testing

21 program of a circuit board in accordance with claim 1, wherein the procedure

22 of building relationships of items to failure rates of parts includes the

23 following steps: selecting the name of the object to be tested; then displaying

24 the picture so as to indicate the picture of the corresponding part; inputting

1   the rate to indicate the part corresponding to the item and the failure rate of

2   the corresponding part, to facilitate the analysis work of the testing program.

3   20. The humanity interface development system of a testing

4   program of a circuit board in accordance with claim 1, wherein the procedure

5   of linking and compiling files includes the following steps: selecting the

6   name and picture of the object to be tested; after confirmation, then making

7   the testing program by the compiling process, if not confirmed, returning to

8   the main menu.

9